CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

27th March 2014

Dear Sir,

Sub: Testing Materials.

As requested, tests on physical properties were carried out for the materials supplied by you, for the work of **'Improvements to drain chain link fencing and construction of gallery to play ground at BEL layout 4th block near ganesh temple in ward no. 09 Vidyaranyapura sub division..'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Deputy Quality Manager

CIVILTECH LABS

TEST REPORT ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to drain chain link fencing and construction of gallery to play ground at BEL layout 4th block near ganesh temple in ward no. 09 Vidyaranyapura sub division.
Agency Name	M/s. K. R. I. D. L.

Sample	Date of Testing	Specific Gravity	Absorption in %	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970	Remarks
40mm Down Graded	27/03/2014	2.68	0.27	80	100	100	Satisfies The Requirements
				40	97	95-100	
				20	54	30-70	
				10	24	10-35	
				4.75	3	0-5	

Note:

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BANGALORE-560 027

Lab Incharge
Civil Tech Labs

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TEST REPORT ON FINE AGGREGATES Ref:IS:383/2386

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to drain chain link fencing and construction of gallery to play ground at BEL layout 4th block near ganesh temple in ward no. 09 Vidyaranyapura sub division.
Agency Name	M/s. K. R. I. D. L.

Sample	Date of Testing	Specific Gravity	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement As Per IS 383-1970				Grading Zone
					ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
Fine Aggregates	27/03/2014	2.57	10	100	100	100	100	100	II
			4.75	98	90-100	90-100	90-100	95-100	
			2.36	84	60-95	75-100	85-100	95-100	
			1.18	73	30-70	55-90	75-100	90-100	
			0.6	45	15-34	35-59	60-79	80-100	
			0.3	24	5-20	8-30	12-40	15-50	
			0.15	8	0-10	0-10	0-10	0-15	

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Lab Incharge
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TEST REPORT ON CEMENT

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to drain chain link fencing and construction of gallery to play ground at BEL layout 4th block near ganesh temple in ward no. 09 Vidyaranyapura sub division.
Agency Name	M/s. K. R. I. D. L.

Tests on Cement	Test Date	Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112 1989	Remarks
			IS Code	Method	Value	Unit		
	27/03/2014	Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
		Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	480	min	Not More Than 600 Minutes	Satisfies Requirement
		Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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CIVILTECH LABS

TEST REPORT ON REINFORCEMENT STEEL BARS 10mm

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to drain chain link fencing and construction of gallery to play ground at BEL layout 4th block near ganesh temple in ward no. 09 Vidyaranyapura sub division.
Agency Name	M/s. K. R. I. D. L.
Date of Testing	27/03/2014

Sl.No.	Description	Result	IS 1786-1985 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.620	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	418	415	Satisfactory
6	U T S (N/Sq.mm)	522	485	Satisfactory

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TEST ON WMM MIX

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Project	Improvements to drain chain link fencing and construction of gallery to play ground at BEL layout 4th block near ganesh temple in ward no. 09 Vidyaranyapura sub division.
Agency	M/s. K. R. I. D. L.
Date of Testing	27/03/2014
Reference	**MORTH Table 400-11**

IS Sieve Designation (mm)	% By Weight Passing IS Sieve	Actual % By Weight Passing IS Sieve	Remarks
53	100	100	**Satisfies Requirements**
45	95-100	99.1	
22.4	60-80	74.6	
11.2	40-60	57.4	
4.75	25-40	33.6	
2.36	15-30	25.4	
0.6	8-22	18.2	
0.075	0-8	7.3	

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

03rd May 2014

Dear Sir,

Sub: Improvements to drain chain link fencing and construction of gallery to play ground at BEL layout 4th block near ganesh temple in ward no. 09 Vidyaranyapura sub division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Deputy Quality Manager

CIVIL TECH LABS

TEST REPORT ON CONCRETE CUBES

Name of the Client	AEE, Vidyaranyapura Sub Division, BBMP
Project	Improvements to drain chain link fencing and construction of gallery to play ground at BEL layout 4th block near ganesh temple in ward no. 09 Vidyaranyapura sub division.
Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 Sq.mm
Technical Reference	IS: 516-1959(Reaffirmed 2004)

Sl.No	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/Sq.mm)	Avg Compressive Strength (N/Sq.mm)
1	CC-Work (Drain)	05/04/2014	03/05/2014	28	8.20	480	21.33	21.63
2					8.21	495	22.00	
3					8.19	485	21.56	

Note:

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

20th May 2015

Dear Sir,

Sub: Improvements to Drain, Chain Link Fencing and Construction of gallery to Play ground at BEL Layout 4th Block Near Ganesh Temple in Ward No. 09, Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Drain, Chain Link Fencing and Construction of gallery to Play ground at BEL Layout 4th Block Near Ganesh Temple in Ward No. 09, Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-1 (Drain)	22/04/2014	20/05/2014	28	8.18	354	**15.73**	**15.70**
2					8.19	356	**15.82**	
3					8.18	350	**15.56**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Drain, Chain Link Fencing and Construction of gallery to Play ground at BEL Layout 4th Block Near Ganesh Temple in Ward No. 09, Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2 (Drain)	22/04/2014	20/05/2014	28	8.19	360	**16.00**	**15.79**
2					8.18	354	**15.73**	
3					8.17	352	**15.64**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Drain, Chain Link Fencing and Construction of gallery to Play ground at BEL Layout 4th Block Near Ganesh Temple in Ward No. 09, Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-3 (Drain)	22/04/2014	20/05/2014	28	8.17	354	**15.73**	**15.82**
2					8.16	352	**15.64**	
3					8.20	362	**16.09**	

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T-2654

To,

Assistant Executive Engineer
Vidyaranyapura Sub Division,
BBMP Bangalore.

16th May 2015

Dear Sir,

Sub: Improvements to Drain, Chain Link Fencing and Construction of gallery to Play ground at BEL Layout 4th Block Near Ganesh Temple in Ward No. 09, Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Drain, Chain Link Fencing and Construction of gallery to Play ground at BEL Layout 4th Block Near Ganesh Temple in Ward No. 09, Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-1 (Drain)	18/04/2014	16/05/2014	28	8.20	495	**22.00**	**21.63**
2					8.19	480	**21.33**	
3					8.21	485	**21.56**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Drain, Chain Link Fencing and Construction of gallery to Play ground at BEL Layout 4th Block Near Ganesh Temple in Ward No. 09, Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-2 (Drain)	18/04/2014	16/05/2014	28	8.20	505	**22.44**	**21.93**
2					8.19	495	**22.00**	
3					8.17	480	**21.33**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP
Name of Work	Improvements to Drain, Chain Link Fencing and Construction of gallery to Play ground at BEL Layout 4th Block Near Ganesh Temple in Ward No. 09, Vidyaranyapura Sub Division.
Name of Agency	M/s. K. R. I. D. L.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-3 (Drain)	18/04/2014	16/05/2014	28	8.20	495	**22.00**	**21.93**
2					8.19	485	**21.56**	
3					8.21	500	**22.22**	

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